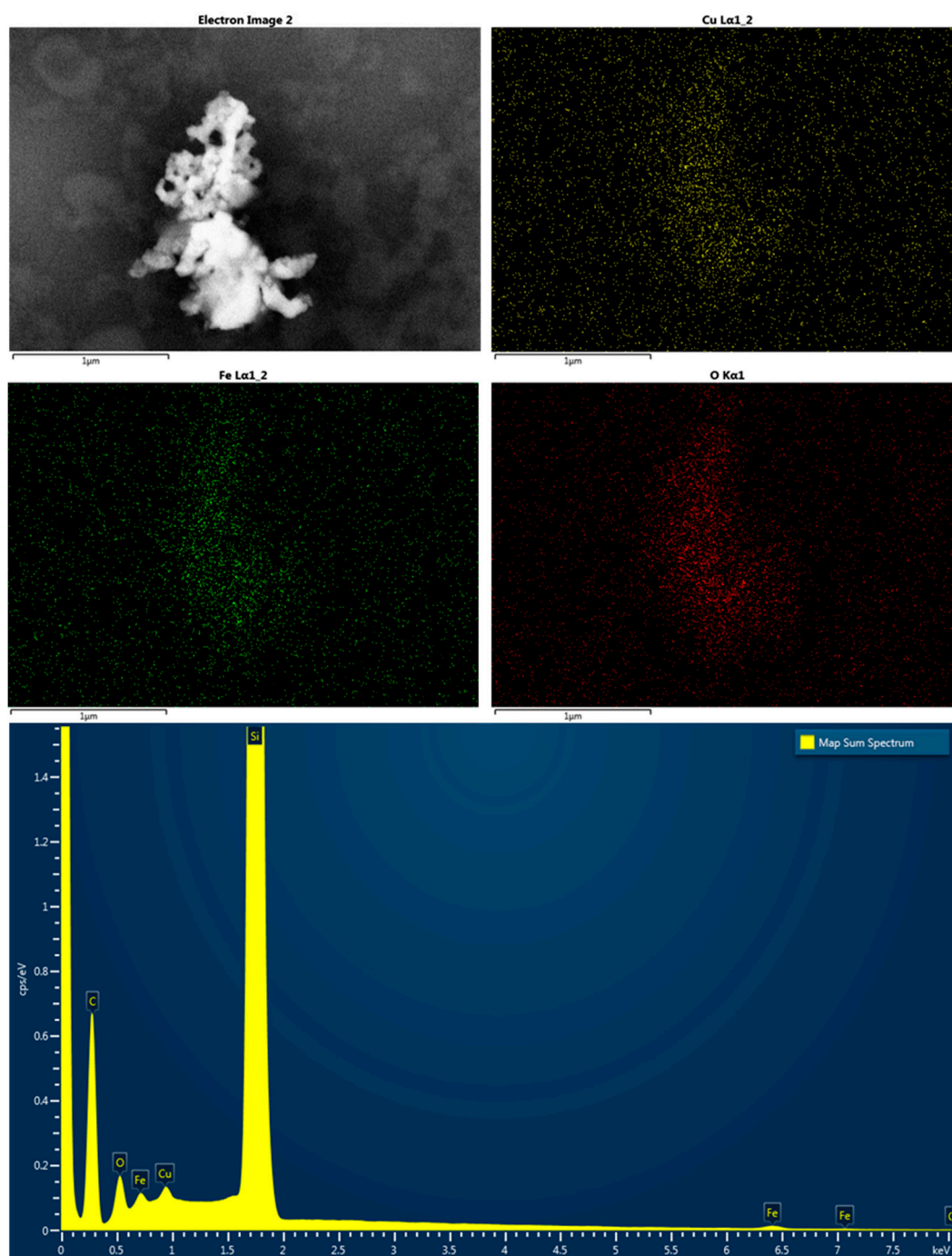
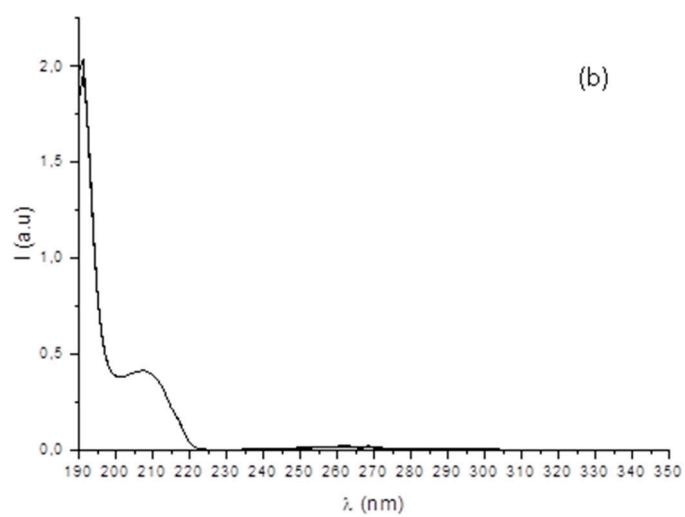
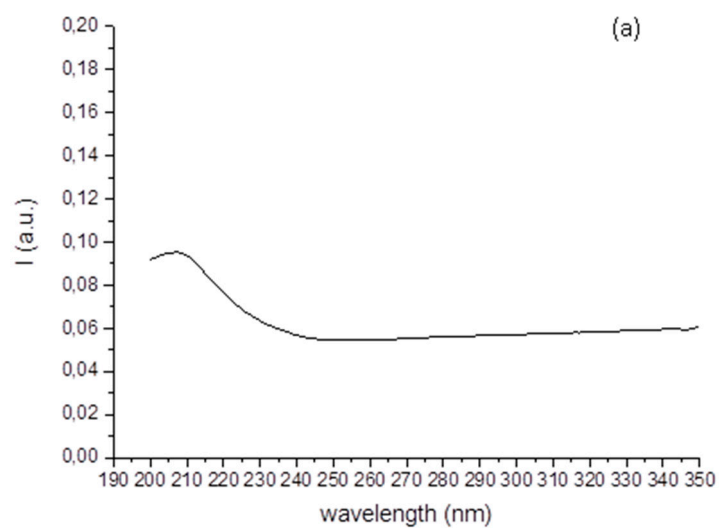


# Supplementary Materials: Antimicrobial Lemongrass Essential Oil–Copper Ferrite Cellulose Acetate Nanocapsules

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**Figure S1.** EDS mapping of Cu-ferrite NPs within the CA/5-LG/Cu-ferrite NC matrix; the first image on the top-left shows the analyzed region. Each map shows the distribution of Cu, Fe and O in correspondence with the cluster. The last image shows the corresponding EDS spectra. The scatter in the images is due to the localization of the Cu-ferrites, not only in the center of the image but also around, where the NCs are present.



**Figure S2.** UV-VIS spectroscopy on (a) bare Cu-ferrite NPs and on (b) cellulose acetate NPs dissolved in acetonitrile.

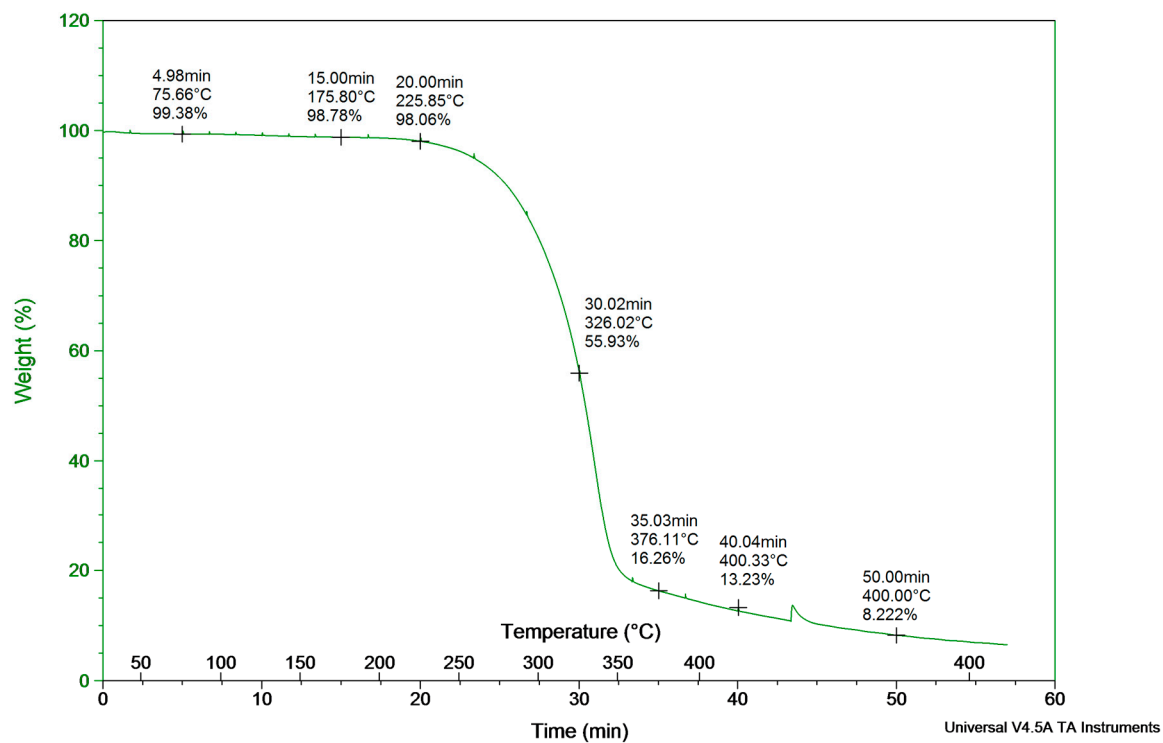


Figure S3. TGA CA NPs.

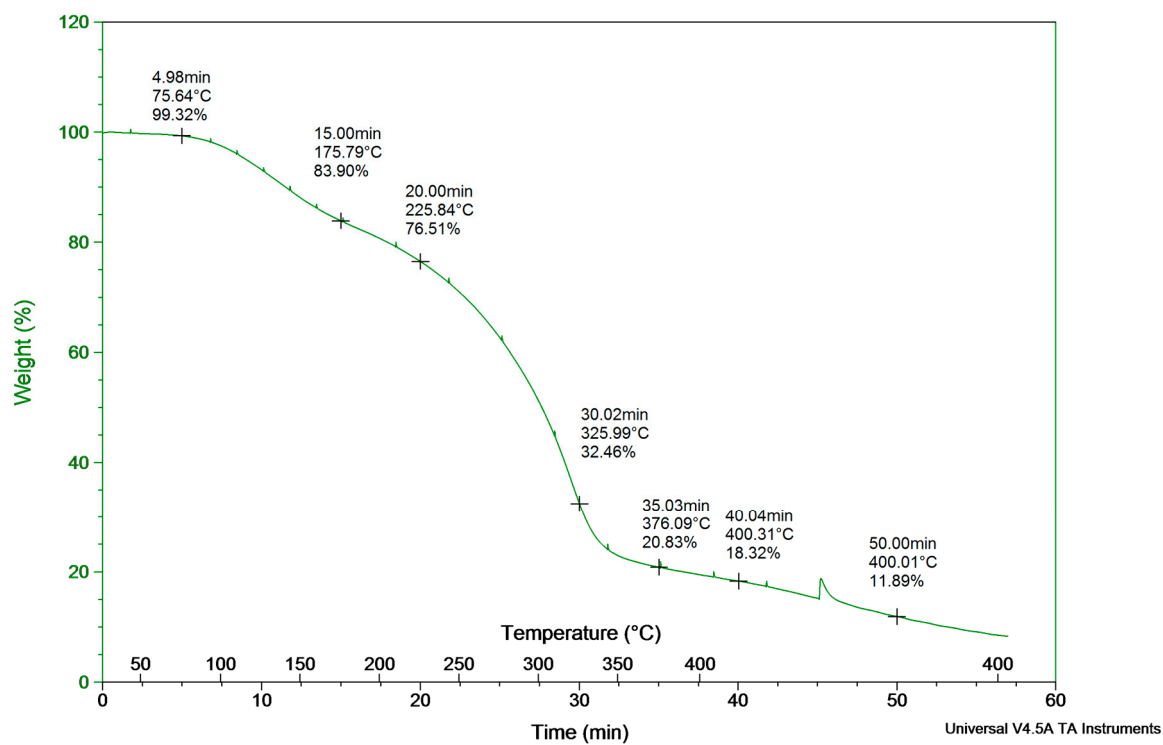


Figure S4. TGA CA/5-LG NCs.

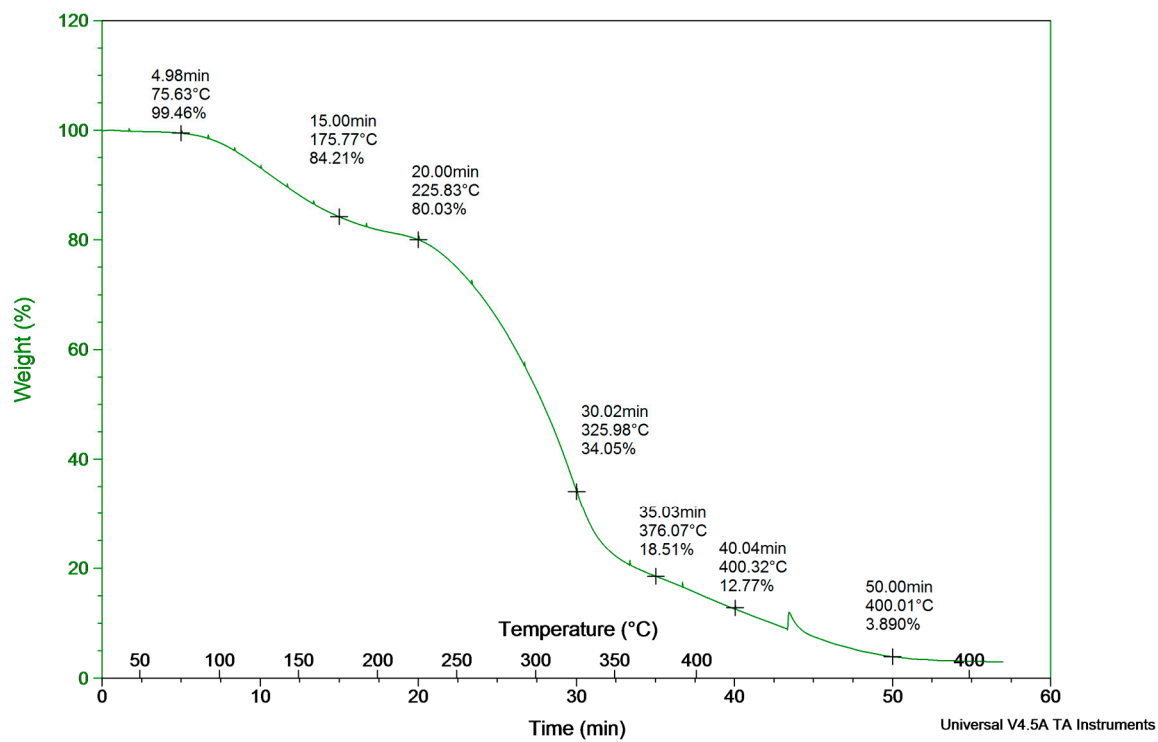


Figure S5. TGA CA/5-LG/Cu-ferrite NCs.